

Comparisons of Job Characteristics

Focus Occupation: [Industrial Machinery Mechanics \(49-9041\)](#)

Associated Occupation: [Mobile Heavy Equipment Mechanics, Except Engines \(49-3042\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	23.6	20.1	<< Extensive education and/or training may be required
Engineering and Technology	5.7	10.2	13.0	> Current knowledge level is likely sufficient
Physics	4.3	7.9	7.4	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	13.6	13.6	0 Current skill level may be sufficient
Repairing	3.4	13.2	15.6	> Skill level is likely sufficient
Equipment Maintenance	3.5	12.9	14.6	> Skill level is likely sufficient
Operation Monitoring	6.6	11.9	14.2	> Skill level is likely sufficient
Quality Control Analysis	5.9	11.9	12.3	0 Current skill level may be sufficient
Operation and Control	5.4	10.8	11.6	0 Current skill level may be sufficient
Equipment Selection	3.3	9.3	9.8	0 Current skill level may be sufficient
Management of Material Resources	3.7	6.4	3.3	<< Extensive development of skills in this area may be required
Installation	1.7	6.0	6.4	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 95			
Focus Occupation: Industrial Machinery Mechanics (49-9041) Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.9	12.9	0	Current ability level may be sufficient
Multilimb Coordination	6.0	13.5	11.5	<	Some improvement in abilities may be required
Extent Flexibility	4.8	13.4	10.3	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	13.0	12.6	0	Current ability level may be sufficient
Finger Dexterity	7.6	12.9	11.9	0	Current ability level may be sufficient
Visualization	7.5	12.2	10.7	<	Some improvement in abilities may be required
Reaction Time	4.8	11.4	13.9	>	Current ability level is likely sufficient
Hearing Sensitivity	5.6	11.0	12.1	0	Current ability level may be sufficient
Response Orientation	4.0	9.4	8.3	<	Some improvement in abilities may be required
Sound Localization	2.2	5.8	6.5	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 90
Focus Occupation: Industrial Machinery Mechanics (49-9041) Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Adjust or set mechanical controls or components	69	
Align or adjust clearances of mechanical components or parts	72	
Apply cleaning solvents	41	
Assemble, dismantle, or reassemble equipment or machinery	70	
Conduct tests to locate mechanical system malfunction	71	
Determine installation, service, or repair needed	58	
Develop maintenance schedules	82	
Diagnose mechanical problems in machinery or equipment	65	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Identify base metals for welding	68	
Inspect machinery or equipment to determine adjustments or repairs needed	42	

Lubricate machinery, equipment, or parts	59
Maintain or repair industrial or related equipment/machinery	39
Maintain repair records	65
Maintain welding machines or equipment	70
Move or fit heavy objects	8
Operate crane in construction, manufacturing or repair setting	76
Operate hoist, winch, or hydraulic boom	34
Operate pneumatic test equipment	82
Overhaul industrial or construction machinery or equipment	95
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read schematics	34
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair or replace malfunctioning or worn mechanical components	62
Set up and operate variety of machine tools	62
Solder metal parts or components together	73
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use combination welding procedures	68
Use control or regulating devices to adjust or maintain industrial machinery	89
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use hand or power tools	2
Use knowledge of metric system	39
Use knowledge of welding filler rod types	75
Use machine tools in installation, maintenance, or repair	72
Use precision measuring devices in mechanical repair work	61
Use soldering equipment	44
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Tools and Technologies	Exclusivity
Business function specific software	1
Compressors	9
Computers	1

Cutting and crimping and punching tools	3
Data management and query software	1
Dispensing tools	6
Electrical measuring and testing equipment	7
Face and head protection	7
Fastener setting tools	12
Forming tools	2
Gas analyzers and monitors	10
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Integrated circuits	18
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Mechanical instruments	14
Pneumatic tools	8
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Rough and finishing tools	5
Sealing tools	21
Soldering and brazing and welding machinery and supplies	6
Transportation related equipment and instruments	29
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.